

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. (currently amended) In a multimedia computer amplified speaker system having a speaker driver for transducing into sound an audio electrical signal that has an amplitude, the improvement comprising:

a dynamic bass equalization circuit with a second or higher order active filter having ~~[[a]]~~ automatic dynamically adjusted gain and frequency response that vary with the amplitude of the audio electrical signal,

the active filter including an amplifier with a negative feedback path which reduces a gain of said amplifier as said amplitude of said audio electrical signal increases ~~that includes a parallel pair of opposed diodes that provide the dynamically adjusted gain and frequency response.~~

2. (original) The speaker system of claim 1 in which the active filter includes a Sallen-Key high pass filter.

3. (canceled)

4. (canceled)

5. (currently amended) The speaker of claim ~~[[1]]~~ 31 in which the amplifier includes an output and the negative feedback path includes a resistor connected in series with the parallel pair of opposed diodes and the amplifier output.

6. (currently amended) The speaker system of claim ~~[[1]]~~ 31 in which the amplifier includes a positive feedback path having a voltage divider that voltage divides a feedback voltage.

7. (original) The speaker of system claim 6 in which the amplifier includes an output and the negative feedback path includes a resistor connected in series with the parallel pair of opposed diodes and the amplifier output.

8. (original) The speaker system of claim 1 in which the active filter includes an amplifier with a positive feedback path having a voltage divider that voltage divides a feedback voltage.

9. (original) The speaker system of claim 1 in which the dynamic bass equalization circuit provides a bass equalized audio signal that is delivered to a sub-woofer speaker driver.

10. (original) The speaker system of claim 1 in which the dynamic bass equalization circuit provides a bass equalized audio signal that is delivered to a full-range speaker driver.

11. (currently amended) A speaker configured to receive ~~In a multimedia computer amplified speaker system having a speaker driver for transducing into sound an audio electrical signal that has an amplitude~~ from a multimedia computer, ~~the improvement~~ comprising:

a speaker housing;

an electrical signal input;

at least one treble band speaker;

a sub-woofer speaker;

a dynamic bass equalization circuit coupled between said electrical signal input and said sub-woofer speaker,

said dynamic bass equalization circuit including with a second or higher order Sallen-Key high pass filter having a dynamically adjusted gain and frequency response that vary with the amplitude of the audio electrical signal,

the active filter including

an amplifier and

with a negative feedback path that includes a parallel pair of opposed diodes which reduce a gain of said amplifier as said amplitude of said audio electrical signal increases that provide the dynamically adjusted gain and frequency response.

12. (canceled)

13. (canceled)

14. (currently amended) The speaker system of claim 11 in which the amplifier includes an output and the negative feedback path includes a resistor connected in series with the parallel pair of opposed diodes and the amplifier output.

15. (currently amended) The speaker system of claim 11 in which the amplifier includes a positive feedback path having a voltage divider that voltage divides a feedback voltage.

16. (currently amended) The speaker system of claim 15 in which the amplifier includes an output and the negative feedback path includes a resistor connected in series with the parallel pair of opposed diodes and the amplifier output.

17. (currently amended) The speaker system of claim 11 in which the active filter includes an amplifier with a positive feedback path having a voltage divider that voltage divides a feedback voltage.

18. (currently amended) The speaker system of claim 11 in which the dynamic bass equalization circuit provides a bass equalized audio signal that is delivered to a sub-woofer speaker driver.

19. (currently amended) The speaker system of claim 11 in which the dynamic bass equalization circuit provides a bass equalized audio signal that is delivered to a full-range speaker driver.

20. - 30. (canceled)

31. (new) The speaker system of claim 1 wherein said feedback path includes a parallel pair of opposed diodes which reduce the gain of said amplifier as said amplitude of said audio electrical signal increases.